PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 5 : H04B 15/00 — A1

(11) International Publication Number: WO 93/08655

(43) International Publication Date: 29 April 1993 (29.04.93)

(21) International Application Number: PCT/US92/07013

(22) International Filing Date: 24 August 1992 (24.08.92)

(30) Priority data:
777,950 17 October 1991 (17.10.91) US

(71) Applicant: MOTOROLA, INC. [US/US]; 1303 East Algonquin Road, Schaumburg, IL 60196 (US).

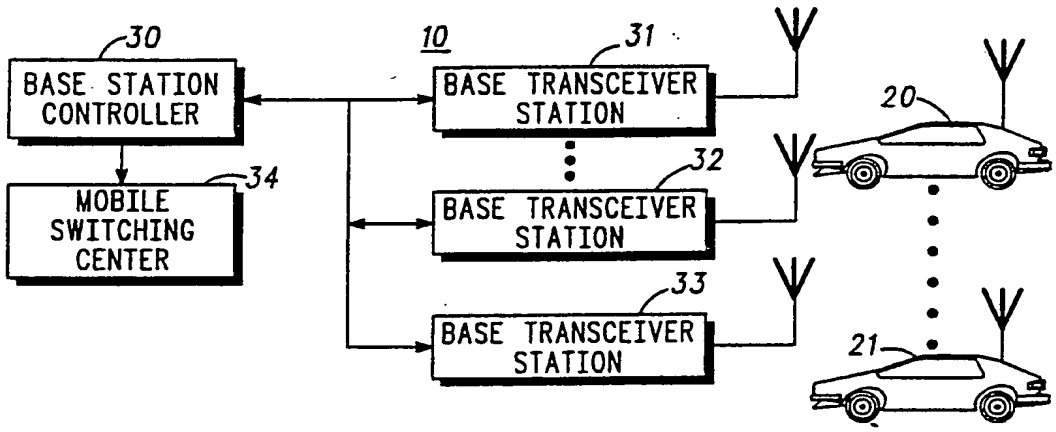
(72) Inventors: MENICH, Barry, J. ; 2680 College Hill, Schaumburg, IL 60173 (US). BONTA, Jeffrey, D. ; 1300 East Mayfair, Arlington Heights, IL 60004 (US).

(74) Agents: PARMELEE, Steven, G. et al.; Motorola, Inc., Intellectual Property Dept./JPC, 1303 E. Algonquin Road, Schaumburg, IL 60196 (US).

(81) Designated States: CA, JP, KR, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE).

Published
With international search report.
With amended claims and statement.

(54) Title: IMPROVED GSM INTERFERENCE BAND SELECTION AND REDUCED POWER HANDOVER



(57) Abstract

A method is offered of achieving a desired C/I ratio within a cellular system, at reduced transmitter power levels, by measuring a signal loss on a downlink between a base site transmitter (31) and mobile receiver (20) and calculating an uplink signal magnitude at a base site receiver. A communication channel is then selected from a number of communication channels based upon comparison of the uplink signal magnitude with pre-measured interference levels of each channel of the number of channels to produce a desired C/I ratio.